

CLAIM AMENDMENTS

1. (Currently Amended) A method for the producing a flexographic printing plate, which has a base layer and a layer of a light sensitive material attached ~~on~~ to the base layer, ~~of the type according to which comprising producing an image is produced on the layer of the~~ light sensitive ~~layer material~~ material by ~~bringing about a selective crosslinking, by insolation~~ insolating of the zones which are to be crosslinked ~~using light with a predetermined wavelength and by removal of the non-crosslinked zones, characterized by the fact that for the insolation, an~~ with amplitude modulated laser light is used, whose having a wavelength is ~~on the order of 390 to 410 nm, and which is made to sweep~~ sweeping the surface layer of the light sensitive ~~layer material with the laser light, and, thereafter, removing zones which are~~ not crosslinked.

2. (Currently Amended) ~~A~~ The method according to Claim 1, ~~characterized by the fact that one uses~~ including producing the laser light with a laser sources source consisting of a bundle of diodes ~~functioning~~ producing laser light at wavelengths around 405 nm.

3. (Currently Amended) ~~A~~ The method according to ~~either of Claims 1 and 2~~ Claim 1, ~~characterized by the fact that the removal of~~ including removing the non-crosslinked zones is done ~~which are not crosslinked by liquefying of these the zones by thermal means which~~ are not crosslinked thermally, without the use of using solvents.

4. (Currently Amended) ~~A~~ The method according to Claim 3, ~~characterized by the fact that ones uses a~~ wherein the light sensitive material formulated in such a way that the material not crosslinked by the laser light has a ~~great~~ variation of in viscosity ~~at in a~~ temperature ~~advantageously between~~ range from 60 and to 140°C, and that the material of the zones that are crosslinked zones is completely incapable of melting at this temperature or becomes meltable melt at a temperature ~~much~~ higher than the temperature ~~of variation of~~ viscosity range.

5. (Currently Amended) ~~A~~ The method according to ~~one of Claims 1 to 4~~ Claim 1, ~~characterized by the fact that~~ wherein the light sensitive material contains at least one or more selected from the group consisting of high molecular weight polymers, functionalized monomers or oligomers, photo-initiators, reactive or non-reactive diluents, inhibitors and protective agents, and ~~if necessary,~~ pigments.

6. (Currently Amended) ~~A~~ The method according to one of Claims Claim 1 to 5,
~~characterized by the fact that~~ wherein the light sensitive material is a photo-polymer
containing at least two complementary crosslinking systems.

7. (Currently Amended) A method according to Claim 6, ~~characterized by the fact~~
~~that~~ wherein a main system is used to create ~~the~~ an image.

8. (Currently Amended) ~~A~~ The method according to Claim 6 or 7, characterized by
~~the fact that~~ including using a complementary system ~~is used~~
to increase ~~the~~ chemical and mechanical resistance.

9. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 8 Claim 6,
~~characterized by the fact that~~ including using a complementary system ~~is used~~
to generate different compressibilities.

10. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 9 Claim 6,
~~characterized by the fact that~~ including partially crosslinking the photo-polymer ~~can be~~
~~pre-crosslinked partially in order~~ to adjust the viscosity ~~or to~~ and prevent cold creep during
prolonged storage periods or transport.

11. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 10 Claim 6,
~~characterized by the fact that~~ including sensitizing the photo-polymer ~~can be sensitized by~~
with a flash of light before writing ~~of the~~ an image ~~by~~ with the laser, ~~in order to increase the~~
~~effectiveness of this writing~~ light.

12. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 11 Claim 1,
~~characterized by the fact that~~ wherein the ~~mentioned~~ light sensitive material is a polymer
with a hardness between 60 and 70 ShA ~~approximately~~.

13. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 12 Claim 1,
~~characterized by the fact that~~ the including insulating the light sensitive material with an
energy ~~used for the insolation is between~~ in a range from 20 and to 1000 mJ/cm².

14. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 13 Claim 1, ~~characterized by the fact that the plate is obtained by thermal~~ including thermally projecting ~~of pre-formulated powders onto a support sleeve to produce the plate.~~

15. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 14 Claim 1, ~~characterized by the fact that several~~ including insulating the light sensitive material with a plurality of lasers acting operating in parallel ~~are used.~~

16. (Currently Amended) ~~A~~ flexographic printing plate obtained according to one of Claims 1 to 15 Claim 1, ~~characterized by the fact that it is in the form of~~ comprising tubular sleeve (1) on a rigid support, which has having a composite base (4) and, attached on this the base, the layer (5) made of light sensitive material which is free of solvents.

17. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to Claim 16, characterized by wherein the fact that composite base (4) has a thickness between approximately in a range from 0.2 and to 40 mm, and preferably 0.3 mm.

18. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to either of Claims 16 and 17 Claim 16, ~~characterized by wherein the fact that layer (5) of the light sensitive material has a thickness between~~ in a range from 0.5 and to 2 mm, and preferably 1.5 mm.

19. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to one of Claims 16 to 18 Claim 16, ~~characterized by wherein the fact that sleeve (1) has~~ includes a compressible layer (6).

20. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to one of Claims 16 to 19 Claim 16, ~~characterized by the fact that associated with~~ including a second sleeve (1) is a sleeve containing an inserted layer (8) for variation of the thickness of the sleeve.

21. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to Claim 20, characterized by wherein the fact that inserted layer (8) is compressible.

22. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~produced by extrusion~~ extruded.

23. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~obtained~~ produced by rolling and attachment of a plate ~~on~~ to a support cylinder or sleeve.

24. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~a sleeve obtained~~ produced by ~~thermal~~ thermally projecting of pre-formulated powders onto a support cylinder or sleeve.

25. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 24~~ Claim 16, characterized by ~~the fact that~~ wherein the rigid support is ~~formed by~~ includes a base made of polyester film ~~of the flexographic printing plate~~.

26. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 25~~ Claim 16, characterized by ~~the fact that~~ flexographic printing plate (1) ~~has~~ including a ~~number~~ plurality of the layers of light sensitive material.

27. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 26~~ Claim 16, characterized by ~~the fact that~~ wherein the flexographic printing plate (1) ~~can be etched with~~ is etchable with one of water ~~or with~~, an aqueous solution under pressure, ~~at high temperature or by simple~~, and brushing.